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Phenomenology with sterile neutrinos

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Recent results in short-baseline neutrino oscillation physics have led to a renewed interest in sterile neutrinos. In this talk, we present a global fit to short-baseline oscillation data, and we study to what extent the anomalies in these data can be explained by sterile neutrinos. We also discuss how sterile neutrinos can affect dark matter searches in IceCube and in direct detection experiments.

Presenter: Dr KOPP, Joachim (Fermilab)

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